UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.usplo.gov

DATE MAILED: 07/12/2010

NOTICE OF ALLOWANCE AND FEE(S) DUE

78905 7590 07/12/2010 Saul Ewing LLP (Philadelphia) Attn: Patent Docket Clerk

Attn: Patent Docket Clerk Penn National Insurance Plaza 2 North Second St., 7th Floor Harrisburg, PA 17101 EXAMINER
CHANG, AUDREY Y

ART UNIT PAPER NUMBER
2872

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/534,877	05/12/2005	Armin Schwerdtner	356907.00002-US	6555	
TITLE OF INVENTION: V	TDEO HOLOGRAM AND I				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/12/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used to correspondence including d below or directed off tions.	or transn ig the Pa ierwise ii	nitting the ISSU tent, advance on 1 Block 1, by (a	TE FEE and PUBLICA' rders and notification of a) specifying a new corr	f ma respo	N FEE (if requi intenance fees w ondence address;	red). B rill be i and/or	Hocks 1 through 5 s mailed to the current (b) indicating a sepa	nould to corresponder of the correct the correct the correct terms of th	ne completed where nondence address as TEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fe	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
Attn: Patent Doc Penn National Ir	surance Plaza	/2010		11	berel	Cer	tificate	of Mailing or Trans Transmittal is being ficient postage for first SSUE FEE address 273-2885, on the d	denos	ited with the United
2 North Second : Harrisburg, PA 1										(Depositor's name)
111111111111111111111111111111111111111	.,,,,,									(Signature)
				L						(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	OR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
10/534,877	05/12/2005			Armin Schwerdtner			35	6907.00002-US		6555
TITLE OF INVENTION					_					
APPLN, TYPE	SMALL ENTITY	ISSU	E FEE DUE	PUBLICATION FEE DUI	E I	PREV. PAID ISSUE	FEE			DATE DUE
nonprovisional	NO		\$1510	\$300		\$0	\$1810			10/12/2010
EXAM	INER	A	RT UNIT	CLASS-SUBCLASS						
CHANG, A			2872	359-900000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA	nge of Co "Indication of Use of TO BE	orrespondence on form of a Customer PRINTED ON	2. For printing on the (I) the names of up or agents OR, alterna (2) the name of a sin registered attorney or 2 registered patent at listed, no name will b THE PATENT (print or t data will appear on the I a substitute for filing a	to 3 ative ngle i or ago ttorn be pr	registered paten ly, firm (having as a ent) and the name eys or agents. If a inted.	members of up	er a 2 o to e is 3	ccumer	nt has been filed for
(A) NAME OF ASSIG	GNEE			(B) RESIDENCE: (CIT	ΓY a	nd STATE OR C	OUNT			
4a. The following fee(s): Issue Fee Publication Fee (N Advance Order - 4	o small entity discount j	permitted;		o. Payment of Fee(s): (Pl A check is enclosed Payment by credit c The Director is herel overpayment, to De	i. card. eby a	Form PTO-2038 uthorized to char	is atta	ched. required fee(s), any de	ficienc	
	s SMALL ENTITY state	is. See 37		b. Applicant is no lo						
NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req records of the United Sta	uired) wil tes Paten	I not be accepted and Trademark	d from anyone other than Office.	n the	applicant; a regi	stered a	uttorney or agent; or th	e assig	nee or other party in
Authorized Signature						Date				
Typed or printed name					Registration No.					
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.311 U.S.C. 1 USPTO. rden, shoo NOT SE	. The informatic 22 and 37 CFR Time will vary ald be sent to the END FEES OR (on is required to obtain on 1.14. This collection is endepending upon the induction of financial of the complex tention of the complex TED FORMS.	or ret estin divid icer, TO	ain a benefit by the nated to take 12 r ual case. Any co U.S. Patent and THIS ADDRESS	ne publ ninutes mment: Tradem . SENI	ic which is to file (and to complete, includir s on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	by the g gathe ne you artment for Pate	USPTO to process) ering, preparing, and require to complete to f Commerce, P.O. ents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



Harrisburg, PA 17101

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/534,877	05/12/2005	Armin Schwerdtner	356907.00002-US	6555			
78905	590 07/12/2010		EXAMINER				
Saul Ewing LLF	(Philadelphia)	CHANG, AUDREY Y					
Attn: Patent Dock		ART UNIT	PAPER NUMBER				
Penn National Ins		2872					
2 North Second S	., 7th Floor	DATE MAILED: 07/12/2010					

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/534 877 SCHWERDTNER, ARMIN Notice of Allowability Examiner Art Unit Audrey Y. Chang 2872 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to May 21 and Jue 10, 2010. 2. X The allowed claim(s) is/are 11-16, 18-23, 25, 26, 28, 29, 31-48, 51, 52, 53, 54, 56, 57, 59 and 61-64 (renumbered as 1-45). 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) Some* c) None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance

/Audrey Y. Chang/ Primary Examiner, Art Unit 2872

of Biological Material

9. ☐ Other .

Application/Control Number: 10/534,877 Page 2

Art Unit: 2872

REASONS FOR ALLOWANCE

Remark

This Office Action is in response to applicants' amendments filed after final rejection on May 21,
 2010, which would be entered.

- · By this amendment, the applicant has amended claims 11 and 41.
- Claims 11-16,, 18-23, 25, 26, 28, 29, 31-48, 51-54, 56, 57, 59, 61-64.
- 1. The following is an examiner's statement of reasons for allowance: of the prior art reference considered none has disclosed a method and device for reconstructing three dimensional scene using reconstruction device, (with details set forth in claims 11 and 41), includes a light source, an optical system and a hologram encoded on a hologram bearing medium wherein the optical system images the light source to an image plane of the light source and a viewing window is provided at the image plane and the three dimensional scene is reconstructed from the hologram encoded in the hologram bearing medium within a reconstruction frustum stretch between the hologram bearing medium and the viewing window.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Audrey Y. Chang whose telephone number is 571-272-2309. The examiner can normally be reached on Monday-Friday (9:00-4:30), alternative Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephone B. Allen can be reached on 571-272-2434. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Application/Control Number: 10/534,877 Page 3

Art Unit: 2872

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Audrey Y. Chang, Ph.D. /Audrey Y. Chang/ Primary Examiner, Art Unit 2872